

~~GONASHVILI, Sh. G.~~

Some data on the study of the coagulation of proteins by trichloro-
acetic acids. Soob. AN Gruz.SSR 18 no.4:421-425 Ap '57.

(MIRA 10:7)

1. Ministerstvo sel'skogo khozyaystva GSSR, Nauchno-issledovatel'skiy
institut zhivotnovodstva, Tbilisi. Predstavleno akademikom
P.A. Kometiani.

(Proteins) (Acetic acid)

GONASHVILI, Sh.O.

A particular case of enzymatic coagulation of casein solution. Soob.
AN Gruz. SSR 26 no.5:531-537 My '61. (MIRA 14:8)

1. Gruzinskiy zootekhnicheskoye-veterinarnyy uchebno-issledovatel'skiy
institut, Tbilisi. Predstavleno akademikom P.A. Kometiani.
(Casein) (Coagulation) (Enzymes)

GONASHVILI, Sh.G.

Determination of the proteinase activity by means of the duration of casein solution coagulation. Lab. delo 8 no.3:8-10 Mr '62.

(MIRA 15:5)

1. Laboratoriya biokhimii Gruzinskogo zooveterinarnogo uchebno-issledovatel'skogo instituta, Tbilisi.

(PROTEINASES)

(CASEIN)

GONASHVILI, Sh.G.

Phosphoproteinphosphatase activity of the fungus *Panus rudis*. Soob.
AN Gruz. SSR 29 no.6:677-682 D '62. (MIRA 18:3)

1. Gruzinskiy zooveterinarnyy uchebno-issledovatel'skiy institut,
Tbilisi. Submitted June 30, 1961.

GONASHVILI, Sh.G.

Digestion of cheese proteins in vitro. Vop. pit. 22 no.6:9-12
N-D '63. (MIRA 17:7)

1. Iz biokhimicheskoy laboratorii (zav. - prof. Sh.G. Gonashvili)
Gruzinskogo zooveterinarnogo uchebno-issledovatel'skogo instituta,
Tbilisi.

ERISTAVI, K.D., akademik; GACHECHILADZE, M.G.; GONASHVILI, Sh.G;
MACHABELI, M.S.

Fibrinolytic effect of the enzyme ficin from the sap of the fig
tree. Soob. AN Gruz. SSR 30 no.5:667-670 My '63. (MIRA 16:11)

1. Institut eksperimental'noy i klinicheskoy khirurgii i gemato-
logii AN GruzSSR. 2. Akademiya nauk Gruzinskoy SSR (for Eristavi).

GONASHVILI, Sh.G.

Fermentative coagulation of various proteins. Ssob. AN Gruz.
SSR 33 no.1:93-99 Ja '64. (MIRA 17:7)

1. Gruzinskiy zooveterinarnyy uchebno-issledovatel'skiy institut.

GONASHVILI, SH.G.

Enzymolytic properties of the fig tree (*Ficus carica* L.) latex.
Vop. pit. 23 no.6:26-30 M-D '64. (MIRA 1964)

1. Biokhimicheskaya laboratoriya (zav. - prof. Sh.G.Gonashvili)
Gruzinskogo zooveterinarnogo uchebno-nauchnoissledovatel'skogo instituta,
Tbilisi.

GONASHVILI, Sh.G.; GONASHVILI, M.Sh.

Some properties of purified proteinase of fig latex. Prikl.
biokhim. i mikrobiol. 1 no. 6:640-644 N-D '65. (MIRA 18:12)

1. Gruzinskiy zooveterinarnyy uchebno-issledovatel'skiy institut.
Submitted Aug. 2, 1965.

FELT, V., (Praha 1, Narodni tr.8); GONCAROV, N.P.; VOHNOUT, S.

Effect of cortisone and ACTH on plasma cholesterol in Macacus rhesus monkey. Cas. lek. Cesk. 104 no.44:1213-1216 5 N '65.

1. Vyzkumny ustav endokrinologicky v Praze (reditel doc. dr. K. Silink, DrSc. a Institut experimentalni patologie a terapie AMN (reditel prof. B.A. Lapin, DrSc.) Suchumi, SSSR. Submitted November 1964.

R/002/62/000/001/002/004
D272/D303

AUTHOR: Goncearov, V. V., Professor, Deputy Director

TITLE: Nuclear reactors - interesting achievements

PERIODICAL: Știința și tehnica, no. 1, 1962, 9

TEXT: A brief evaluation of the achievements discussed at the "International Conference for Experimental Reactors, Physics and Technology, Bucharest, November 10-17, 1961". Especially mentioned in this paper were the following achievements: Increase of the power of the reactor VVR-S to 3 MW (50% over the designed power) by uniformization of the temperature of the uranium rods surface as a result of careful measurements; creation of "internal thermal columns" - "neutron traps" - i.e. certain zones inside the reactor where the thermal neutron flux exceeds greatly the medium value (at the IFA reactor the irradiation of substances in these zones is performed at a yield equivalent to a 10,000 kW reactor) which enable high yields in the preparation of high specific activity isotopes; the use of a neutron beam from the VVR-S reactor

Card 1/2

Nuclear reactors ...

R/002/62/000/001/002/004
D272/D303

for maintaining the fission process in the IFA reactor, and the instrumentation created for studying nuclear reactors by means of the oscillating piles.

ASSOCIATION: Institutul de energie atomica I. V. Kurchatov (Atomic Energy Institute, I. V. Kurchatov)

Card 2/2

✓

GONCEAROV, V.V., prof., laureat al Premiului Lenin

Interesting achievements. St si Teh Buc 14 no.1:9 Ja '62.

1. Deputy Director, "I.V. Kurchatov" Institute of Atomic Power.

GONCERZEWICZ, Maria; PACULT, Hanna

Treatment of stuttering in children with prolonged sleep.
Pediat. polska 31 no.3:317-323 Mar 56.

1. Z Kliniki Chorob Dzieciacych A.M. w Poznaniu Kierownik:
prof. dr. med. T. Rafinski. Z Panstwowego Sanatorium dla
Nerwowo Chorych w Koscanie Dyrektor: dr. med. O. Bielawski.
dr. Maria Goncerzewicz, Poznan, ul. Szyszkowskiego 4.

(SPEECH DISORDERS,

stuttering in child, sleep ther. (Pol))

(SLEEP, therapeutic use,

stuttering in child. (Pol))

GONCERZEWICZ, M.; CHROSCIELEWSKI, E.; BARTKOWIAK, Z.

Mass intoxication of infants by aniline in ink used in laundry markings. *Pediat. polska* 31 no.11:1237-1238 Nov 56.

1. Z Kliniki Chorob Dzieciacych A.M. w Poznaniu, Kierownik:
prof. dr. med. T. Rafinski, i z Wojewodzkiej Stacji Sanitarno-
Epidemiologicznej. Dyrektor: dr. med. S. Grzymala, Dr.
Maria Goncerzewicz, Poznan, ul. Szyszkowskiego 4.

(ANILINE DYES, poisoning,

in inf., from laundry markings on diapers (Pol))

(INFANT CARE,

diapers marked with aniline dyes causing pois. (Pol))

EXCERPTA MEDICA Sec 7 Vol 13/3 Pediatrics Mar 59

678. A RARE CASE OF CONGENITAL ABSENCE OF SPLEEN AND CONGENITAL HEART DEFECT AT COMPLETE SITUS INVERSUS VISCERUM -
Rzadki przypadek wrodzonego braku śledziony (wrodzonej wady serca, z całkowitym odwrotnym układem trzew - Goncerzewicz M. - POL. TYG. LEK. 1957, 12/46 (1785-1787) illus. 3

In a 3-week-old child there were found: a complete situs inversus, congenital heart defect and a suspected congenital absence of the spleen, judging by the picture of peripheral blood. (XVIII, 7)

EXCERPTA MEDICA Sec 4 Vol 12/9 Med. Micro. Sept 59

2922. THE C-REACTIVE PROTEIN IN THE SERA OF CHILDREN WITH DISEASES OF STAPHYLOCOCCAL AETIOLOGY - Występowanie białka C-reaktywnego w surowicach dzieci ze schorzeniami o etiologii gronkowcowej - Jeljaszewicz J. and Goncerzewicz M. Zakł. Mikrobiol., Akad. Med. i II. Klin. Chor. Dziec. Akad. Med., Poznań - POL. TYG. LEK. 1958, 13/36 (1381-1384) Graphs 2 Tables 1

In 80 determinations of the C-reactive protein in the sera of 20 children with streptococcal diseases, its presence in the course of the disease was found in 17 children. In the majority of the cases, the ESR persisted, while the C-reactive protein disappeared after recovery. The determination of C-reactive protein enables the acuteness of the disease to be estimated. (IV, 17)

GONCERZEWICZ, Maria; BRZEZINSKA-JEZONA, Liliana

Research on carriers of pathogenic and antibiotic-resistant staphylococci among children in town and rural areas. *Pediat. polska* 33 no.3:269-275 Mar 58.

1. Z Kliniki Chorob Dzieciacych A.M w Poznaniu, Kierownik: prof. dr med. T. Rafinski. Adres: Poznan, ul. Magdaleny 14, Klin. Chor. Dziec. A.M.

(MICROCCOLA INFECTIONS, in inf. & child;
carriers of pathogenic & antibiotic-resist. micrococci
in towns and rural areas (Pol))

GONCERZEWICZ, Maria

Determination of C-reactive proteins as a supplementary method of investigation of inflammatory processes in children. *Pediat. polska* 34 no.2:131-144 Feb 59.

1. Z II Kliniki Pediatrycznej A.M. w Poznaniu Kierownik: doc. med. O. Szczepaki. Adres: Poznan, ul. Jozefz 7/8 II Klin. Pediatryczna A.M.

(PEDIATRIC DISEASES, blood in,
C-reactive proteins (Pol))

(BLOOD PROTEINS,
C-reactive in pediatric inflamm. dis. (Pol))

SZCZEPSKI, Olech; GONCERZEWICZ, Maria; LEWANDOWSKA, Krystyna

Significance of additional staphylococcal infections during infant diarrheas. Polski tygod. lek. 14 no.41:1835-1838 12 Oct 59.

1. (Z II Kliniki Chorob Dzieciacych A. M. w Poznaniu; kierownik: doc. dr med. Olech Szczepski).

(DIARRHEA, in inf. & child,
(STAPHYLOCOCCAL INFECTIONS, in inf. & child)

GONCERZEWICZ, Maria

Simple methods for the diagnosis of phenylalaninuria. Pol. tyg. lek.
17 no.32:1270-1272 6 Ag. '62.

1. Z II Kliniki Chorob Dzieciacych AM w Poznaniu; kierownik: prof.
dr med. O. Szczepski.
(PHENYLALANINE) (PHENYLKETONURIA)

GONCERZEWICZ, Maria

Studies on the enzymatic and genetic system in phenylalanine metabolism disorders. *Pediat. pol.* 37 no.11:1173-1178 '62.

1. Z II Kliniki Chorob Dzieci AM w Poznaniu Kierownik: prof. dr med.
O. Szczepski.
- | | | |
|-------------------|---------------------|------------|
| (PHENYLKETONURIA) | (MENTAL DEFICIENCY) | (TYROSINE) |
| (ENZYMES) | (GENETICS HUMAN) | |

POLAND

KORYTOWSKI, J. and GONCERZEWICZ, M.; Laryngological Clinic (Klinika Laryngologiczna) (Director: Prof Dr. A. ZAKRZEWSKI) and the Second Clinic of Pediatrics (II Klinika Chorob Dzieciacych) (Director: Prof. Dr. O. SZCZEPSKI), both of the AM [Akademia Medyczna, Medical Academy] in Poznan

"Cerebral Abscesses in Children. Abscess of the Right Frontal Lobe as a Complication of Left-Sided Frontal Sinusitis. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 39, 23 Sep 63, pp 1452-1455

Abstract: [Authors' English summary modified] Authors report case of 4-year old boy with abscess of right frontal lobe of brain caused by left-sided frontal sinusitis, probably due to asymmetrical position of frontal sinuses. Operation on frontal sinus and brain puncture (Dandy) gave good cosmetic effect and no pathological signs six months after the operation on laryngological, neurological, and pediatric examination. ECG tracings were normal. There are 5 references: 3 Polish and 2 Western.

1/1

GONCERZEWICZ, Maria

Our observations on the problem of the treatment of phenylketonuria. *Pediat. pol.* 38 no.1:33-41 '63.

1. Z II Kliniki Chorob Dzieci AM w Poznaniu Kierownik: prof.
dr med. O. Szczepski.
(PHENYLKETONURIA) (PHENYLALANINE)

KORYTOWSKI, J.; GONCERZEWICZ, M.

On a case of a brain abscess in a child (abscess of the right frontal lobe as a complication of left frontal sinusitis).
Pol. tyg. lek. 18 no.39:1452-1455 23 S '63.

1. Z Kliniki Laryngologicznej AM w Poznaniu; kierownik: prof.
dr A. Zakrzewski i z II Kliniki Chorob Dziecięcych AM w
Poznaniu; kierownik: prof. dr O. Szczepski.
(BRAIN ABSCESS) (FRONTAL LOBE) (FRONTAL SINUS)
(SINUSITIS) (NEUROSURGERY) (PUNCTURES)

GONCERZEWICZ, Maria

Contribution to the study of mental deficiency etiology in cases of inborn errors of phenylalanine metabolism. *Pediat. Pol.* 40 no.3:259-260 Mr '65

1. Z II Klinika Chorob Dzieci Akademii Medycznej w Poznaniu (Kierownik: prof. dr. med. O. Szczepski).

GONCERZEWICZ, Maria

Our observations on genetic prophylaxis in phenylketonuria.
Pediat. Pol. 40 no.6:601-604 Je '65.

1. Z II Kliniki Chorob Dzieci AM w Poznaniu (Kierownik: prof.
dr. med. O. Szczepski).

GONCERZEWICZ, Maria; OPATOWICZ-CZAPLINSKA, Zofia

Calcium metabolism study in a case of dysostosis cleidocranialis.
Pediat. Pol. 40 no.7:731-733 J1 '65.

1. Z II Kliniki Chorob dzieci AM w Poznaniu (Kierownik: prof. dr.
med. O. Szczepski).

GOLOGORSKIY, Samuil Davidovich; YELENSKIY, Mikhail Kharitonovich;
NAZARENKO, N., red.; GONCHAR, A., red.; ZELENKOVA, Ye.,
tekhn.red.

[Handbook for making estimates for capital construction]
Spravochnoe posobie po sostavleniiu smet na kapital'noe
stroitel'stvo. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.
USSR, 1963. 550 p. (MIRA 14:2)
(Building--Estimates)

KOROTKIY, Anatoliy Fedorovich; GATNENKO, A., red.; GONCHAR, A., red.;
ZELENKOVA, Ye., tekhn.red.

[Principles of construction] Osnovy stroitel'nogo dela. Kiev,
Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1961. 220 p.

(MIRA 14:7)

(Construction industry)

BOYCHUK, Vasilii Stepanovich; MIKHAYLOV, G., red.; GONCHAR, A., red.;
ZELENKOVA, Ye., tekhn. red.

[Pocket handbook for the road builder] Karmannyi spravochnik dorozh-
nika. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1961. 254 p.
(MIRA 14:6)

(Road construction)

GONCHAR, A. A.

USSR/ Mathematics - Rational functions

Card 1/2 Pub. 22 - 3/52

Authors : Gonchar, A. A.

Title : About the best approximations with rational functions.

Periodical : Dok. AN SSSR, 100/2, 205-208, Jan 11, 1955

Abstract : A series of theorems dealing with the best approximations by rational functions is proved. In proving these theorems the approximations are considered only in the range from 0 (Zero) to 1 (one) in order to show only those new features of approximation by rational functions (instead of by polynomials) which were brought into the theory of the best approximations through the expansion of the class of approximating functions.

Periodical : Dok. AN SSSR, 100/2, 205-208, Jan11, 1955
Card 2/2 Pub. 22 - 3/52
Abstract : Seven references: 6 USSR; 1 French (1936-1951).
Institution : Moscow, M. V. Lomonosov, State University
Presented by: Academician, A. N. Kolmogurov, November 13, 1954

GONCHAR, A.A. GONCHAR A.A.

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 615
 AUTHOR GONCHAR A.A.
 TITLE On a new quasianalytic functions class.
 PERIODICAL Doklady Akad.Nauk 111, 930-932 (1956)
 reviewed 2/1957

Let a function $f(x)$ defined almost everywhere on $[0,1]$ belong to the class $R[0,1]$ if to every $\varepsilon > 0$ there exists a closed set F_ε , $\text{mes } F_\varepsilon > 1 - \varepsilon$, such that $f(x)$ is continuous on F_ε and

$$\lim_{n \rightarrow \infty} \sqrt[n]{R_n(f, F_\varepsilon)} = 0.$$

Here $R_n(f, F_\varepsilon) = \inf_{k \leq n} \max_{x \in F_\varepsilon} |f(x) - R_k(x)|$ and $R_k(x)$ are rational functions of k -th order by which $f(x)$ is approximated.

The author proves some theorems from which follows that the functions of the class R possess some properties which are analogous to the most essential properties of the analytic functions.

1. If $f(x)$ and $g(x)$ belong to $R[0,1]$ and if $f(x) = g(x)$ on Δ (Δ a set belonging to $[0,1]$ with positive measure), then $f(x) = g(x)$ almost everywhere on $[0,1]$.

Doklady Akad.Nauk 111, 930-932 (1956)

CARD 2/2

PG - 615

2. If $f(x)$ belongs to $R [0,1]$, then almost everywhere on $[0,1]$ there exists the asymptotic derivative $f^{[1]}(x)$ which belongs to $R [0,1]$ too.

3. If to every $\varepsilon > 0$ there belongs a closed set $F_\varepsilon \subset [0,1]$, $\text{mes } F_\varepsilon > 1 - \varepsilon$ such that

$$R_n(f, F_\varepsilon) \leq C(\varepsilon) \frac{1}{n^{p+\delta}}, \quad p - \text{integer}, \delta > 0 \text{ arbitrary},$$

is valid, then almost everywhere on $[0,1]$ there exists a p -th asymptotic derivative of $f(x)$.

INSTITUTION: Lomonossow- University, Moscow.

GONCHAR, A. A., Cand of Phys-Math Sci -- (diss) "Certain problems connected with the best approximations of rational functions." Moscow, 1957, 7 pp (Moscow State University im M. V. Lomonosov), 125 copies (KL, 37-57, 101)

16(1)

AUTHOR: Tonchar, A.A.

SOV/20-128-1-5/58

TITLE: Inverse Theorems on Best Approximations on Closed Sets

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 25-28 (USSR)

ABSTRACT: Let $\varphi(x)$ be defined and continuous on a perfect set $P \subset [0,1]$ and have the modulus of continuity $\omega(\delta; \varphi; P)$ and the derivative $\varphi'_P(x)$. Let $\psi(x)$ belong to the class

$L(k + \alpha; P)$, $0 < \alpha \leq 1$, if $\varphi_P^{(k)}(x)$ on P satisfies the Lipschitz condition with the exponent α . Let $F \subset [0,1]$ be a closed set, $\text{mes } F > 0$. A function $f(x)$ defined on F and almost everywhere finite belongs to the class $L(k + \alpha; F \setminus 0)$, $0 < \alpha \leq 1$, if for every $\varepsilon > 0$ there exists a perfect set $P_\varepsilon \subset F$, $\text{mes}(F \setminus P_\varepsilon) < \varepsilon$, so that $f(x) \in L(k + \alpha; P_\varepsilon)$.

Let $R_n(x) = \frac{P_m(x)}{Q_k(x)}$, $n = \max(m, k)$, P_m and Q_k polynomials of the degree m and k . Let $R_n(f; F) = \inf_{\{R_n(x)\}} \max_{x \in F} |f(x) - R_n(x)|$;

Card 1/4

Inverse Theorems on Best Approximations on
Closed Sets

307/20-125-1-5/EE

let the best approximation by polynomials be denoted correspondingly with $E_n(f, F)$.

Theorem 1 : If $R_n(f, F) \leq \frac{C}{n^{A+\delta}}$, where $A > 0$, $\delta > 0$ arbitrarily small, C a constant independent of n , then it is $f(x) \in L(A; F \setminus O)$.

Theorem 2 : If $E_n(f, F) \leq \frac{C}{n^{A+\delta}}$, where $A > 0$, $\delta > 0$ arbitrarily small, then it is 1.) $f(x) \in L(A; F \setminus O)$ 2.) if $[\alpha, \beta]$ lies rigorously in F , then it is $f(x) \in L(A; [\alpha, \beta])$.

Let $R_n^\epsilon(f; F) = \inf_{\{P_\epsilon\}} R_n(f; P_\epsilon)$, where $P_\epsilon \in F$ is a perfect set,

$\text{mes}(F \setminus P_\epsilon) < \epsilon$, $f(x)$ continuous on P_ϵ . Analogous for $E_n^\epsilon(f; F)$.

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Inverse Theorems on Best Approximations on
Closed Sets

SOV/20-120-1-5/58

Theorem 3 : If $f(x) \in L(A; F \setminus 0)$, $A > 0$, then for every $\varepsilon > 0$ it

$$\text{is } E_n^\varepsilon(f, F) = O\left(\frac{1}{n^A}\right).$$

Theorem 4 : If for every $\varepsilon > 0$ it is $R_n^\varepsilon(f, F) = O\left(\frac{1}{n^{A+\delta}}\right)$,

$A > 0$, $\delta = \delta(\varepsilon) > 0$ arbitrarily small, then it is
 $f(x) \in L(A; F \setminus 0)$. A measurable function $f(x)$ defined on F and
almost everywhere finite is said to belong to the class $R(F)$,

if $\lim_{n \rightarrow \infty} \sqrt[n]{R_n(f; F)} = 0$ for every $\varepsilon > 0$.

Theorem 5 : Let $f(x)$ belong to $R(F)$. Then almost everywhere
on F there exists a finite asymptotic derivative

$$f_F^{[1]}(x) \in R(F).$$

Theorem 6 : Let $f(x), g(x) \in R(F)$ and $f(x) = g(x)$ on Δ , $\Delta \subset F$,
 $\text{mes } \Delta > 0$. Then $f(x) = g(x)$ almost everywhere on F .

Card 3/4

Inverse Theorems on Best Approximations on
Closed Sets

SOV/20-128-1-5/58

The author mentions A.Ya. Khinchin, S.N. Bernshteyn, and
S.N. Mergelyan.

There are 6 references, 5 of which are Soviet, and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: May 13, 1959, by A.N. Kolmogorov, Academician

SUBMITTED: May 5, 1959

Card 4/4

16.4100

14.2800

AUTHOR: Gonchar, A.A.

88179

S/140/60/000/006/005/018
C111/C222

TITLE: On the Best Approximations of Measurable Functions by Rational Functions and Polynomials

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960,
No. 6, pp. 74 - 81

TEXT: Let $f(x)$ be a measurable function defined and finite almost everywhere on $[0, 1]$.

Definition: $f(x) \in D_p$ if to every $\varepsilon > 0$ there exists a closed set F_ε , and functions $\phi_\varepsilon(x)$ so that 1) $F_\varepsilon \subset [0, 1]$, $\text{mes } F_\varepsilon > 1 - \varepsilon$, 2) $\phi_\varepsilon(x)$ has a continuous p -th derivative on $[0, 1]$; 3) $f(x) = \phi_\varepsilon(x)$ for $x \in F_\varepsilon$.

Definition: $f(x) \in R_{p+0}$ if to every $\varepsilon > 0$ there exists a closed set $F_\varepsilon \subset [0, 1]$, $\text{mes } F_\varepsilon > 1 - \varepsilon$, and a number $\lambda(\varepsilon) > 0$ so that $f(x)$ is continuous on F_ε , where

$$R_n(f; F_\varepsilon) \leq \frac{C(f; \varepsilon)}{n^p + \lambda(\varepsilon)}$$

Card 1/3

88179

S/140/60/000/006/005/018
C111/G222

On the Best Approximations of Measurable Functions by Rational Functions and Polynomials

where $C(f; \varepsilon)$ does not depend on n , and it holds $R_n(\varphi; F) =$

$= \inf_{\{R_n(x)\}} \max_{x \in F} |\varphi(x) - R_n(x)|$, where F is a set, and $R_n(x)$ is a rational function of n -th order.

Theorem 1 : Let $R_n(x)$ be a rational function of n -th order, $\delta > 0$ an arbitrary number. There exists a set Δ , $\text{mes } \Delta \leq \delta$, depending on $R_n(x)$ and δ so that from $\max_{x \in F - \Delta} |R_n(x)| \leq M$ it follows

$$(5) \quad \max_{x \in F - \Delta} |R'_n(x)| \leq CM \frac{n \ln n}{\delta}$$

where C is an absolute constant.

Theorem 2 : Let $R_n(x)$ be a rational function of n -th order, $\delta > 0$ be an arbitrary number, p be a natural number. There exists a set Δ_p , $\text{mes } \Delta_p \leq \delta$

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88179

S/140/60/000/006/005/018
C111/C222

On the Best Approximations of Measurable Functions by Rational Functions and Polynomials

depending on $R_n(x)$, δ and p so that from $\max_{x \in F - \Delta} |R_n(x)| \leq M$ it follows

$\max_{x \in F - \Delta} |R_n^{(q)}(x)| \leq C(p)M \left(\frac{n \ln n}{\delta} \right)^q$, $q \leq p$, where $C(p)$ is a constant depending only on p .

Main theorem: $R_{p+0} \subset D_p$.

The author mentions A.N. Kolmogorov, A.Ya. Khinchin and Bernshteyn. There are 5 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State university imeni M.V. Lomonosov)

SUBMITTED: December 22, 1958

Card 3/3

GONCHAR, A. A.

An inverse theorem of the theory of optimal approximations. Dokl.
AN Arm.SSR 30 no.4:193-196 '60. (MIRA13:8)

1. Moskovskiy gosudartvennyy universitet im.M.V. Lomonosova.
Predstavleno chlenom-korrepondentom AN Armyanskoy SSR S.N. Mergelyanom.
(Approximate computation)

GONCHAR, A.A.

Inverse theorems on the best approximations by rational functions.
Izv. AN SSSR. Ser. mat. 25 no.3:347-356 My - Je '61.

(MIRA 14:6)

(Functional analysis)

32311
S/020/61/141/005/002/018
C111/C444

16.4000
AUTHOR:

Gonchar, A. A.

TITLE: Superconvergence of sequences of rational functions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 5, 1961,
1019 - 1022

TEXT: Let E be a continuum in the complex plane P . Let P^α be the set of the accumulation points of the sequence $\{\alpha_{n,k}\}$, $n=1,2,\dots$, $k=1,2,\dots,n$ of the poles of the rational functions:

$$r_n(z) = \frac{a_{n0}z^n + a_{n1}z^{n-1} + \dots + a_{nn}}{(z - \alpha_{n1})(z - \alpha_{n2})\dots(z - \alpha_{nn})}, \quad \alpha_{nk} \in E \quad (1)$$

Let $G^\alpha = P \setminus P^\alpha$ be an open set; $G^\alpha = \bigcup_k G_k^\alpha$, G_k^α ($k = (0), 1, 2, \dots$)

being the connected components of the set G^α (one supposes that there is at least one domain G_k^α , $k \neq 0$ which does not intersect E).

Theorem 1: The function $f(z)$ be defined only on E . Let there exist a sequence of functions (1), where

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Superconvergence of sequences...

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$$\lim_{n \rightarrow \infty} \left[\max_{z \in E} |f(z) - r_n(z)| \right]^{1/n} = 0, \quad (2)$$

be satisfied. Then:

- 1.) the sequence $r_n(z)$ converges on G^α uniformly on every closed set belonging to G^α , and therefore:

$$F(z) = \lim_{n \rightarrow \infty} r_n(z), \quad z \in G^\alpha, \text{ is analytic on } G^\alpha;$$

- 2.) for every closed set e , contained in one of the domains G_k^α , there is $\lim_{n \rightarrow \infty} \left[\max_{z \in e} |F(z) - r_n(z)| \right]^{1/n} = 0;$

- 3.) the limit function $F(z)$ is a quasi analytic continuation of $f(z)$ in the sense that the values of $F(z)$ on G^α are uniquely defined by the values of $f(z)$ on E . (and consequently as well by the values of $F(z)$ in one of the domains G_k^α).

More exactly: if $g_n(z)$ is a sequence of rational functions

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$$g_n(z) = \frac{b_{n0}z^n + b_{n1}z^{n-1} + \dots + b_{nn}}{(z - \beta_{n1})(z - \beta_{n2}) \dots (z - \beta_{nn})}, \quad \beta_{nk} \in E,$$

being different from $r_n(z)$ and for which holds: $\lim_{n \rightarrow \infty} \left[\max_{z \in E} |f(z) - g_n(z)| \right]^{\frac{1}{n}} = 0$, then $F(z) = G(z) \lim_{n \rightarrow \infty} g_n(z)$ in every point of the set $G^\alpha \cap G^\beta$;

4.) if there exists an integer function $F_1(z)$ such that $F_1(z) = f(z)$, $z \in E$, then $F_1(z) = F(z)$, $z \in G^\alpha$; especially: if $f(z) = 0$, $z \in E$, then $F(z) = 0$, $z \in G^\alpha$.

Theorem 2: Let $R_n(f; E)$ be the best approximation of $f(z)$ on E by rational functions (1). If

$$\lim_{n \rightarrow \infty} \sqrt[n]{R_n(f; E)} = 0 \quad (4)$$

and $f(z) = 0$ on a set $e \subset E$ of positive capacity, then $f(z) = 0$ on E .

Theorem 3: Let the sequence (1) of the functions $r_n(z)$, the poles

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of which satisfy the condition $1 < |\alpha_{nk}| \leq R$, $n = N, N+1, \dots$ converge to zero in $|z| \leq 1$, where

$$\lim_{n \rightarrow \infty} \left[\max_{|z| \leq 1} |r_n(z)| \right]^{1/n} = q < \frac{1}{R}. \quad (5)$$

Then the sequence $r_n(z)$ converges to zero for $|z| > \frac{R-q}{1-Rq}$ uniformly for $|z| \geq Z > \frac{R-q}{1-Rq}$.

The theorems 4 and 5 are conclusions of theorem 3.

Theorem 6: Let E be an arbitrary continuum; $f(z)$ be defined only on E . If the sequence (1) of the functions $r_n(z)$ converges on E to $f(z)$ such that $\max_{z \in E} |f(z) - r_n(z)| \leq \frac{C}{n^\varepsilon}$, $\varepsilon > 0$, then the sequence $r_{n_k}(z)$,

$k = 1, 2, \dots$ converges for every lakunary sequence $n_1, n_2, n_3, \dots, n_k$

on the set $F \supset E$, the complementary set of which has the Hausdorff measure zero of an arbitrary order, to the function $F(z)$ which is the quasi analytic continuation of the function $f(z)$.

There are 3 Soviet-bloc and 2 non-Soviet-bloc references. The

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Superconvergence of sequences...

reference to English language publication reads as follows: S. L. Walsh, Interpolations and Approximations, N. Y. 1935.

PRESENTED: July 19, 1961, by A. N. Kolmogorov, Academician

SUBMITTED: June 29, 1961

Card 5/5

X

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(Lupine) (Companion crops)

GONCHAR, A.I., kand.sel'skokhozyaystvennykh nauk

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DOBROVOL'SKIY, Georgiy Nikolayevich; GONCHAR, A.S., red.; BABIL'CHANOVA
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DMITRIYEV, Leonid Georgiyevich; SOSIS, Petr Moiseyevich; VARVAK,
P.M., doktor tekhn. nauk, prof., retsenzent; LETICHEVSKIY,
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[Programming the design of three-dimensional structures]
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SOV/124-57-9-10176

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 41 (USSR)

AUTHOR: Gonchar, B. M.

TITLE: Air-transfer Flow Rate in Divided Combustion Chambers (O skorosti peretekaniya vozdukha v razdelennykh kamerakh sgoraniya)

PERIODICAL: V sb.: Dvigateli vnutr. sgoraniya. Moscow-Leningrad, Mashgiz, 1956, pp 3-13

ABSTRACT: The paper cites the results of an experiment especially staged to determine the order of magnitude of the error in the application of stationary-flow laws to air-transfer-flow phenomena taking place as the result of varying pressure differences occurring in an internal-combustion engine with divided combustion chambers during short time intervals. The first part of the paper is devoted to the critique of method developed by Liberovich B. G. , (Dizelestroyeniye, 1940, Nr 3, pp 4-6) currently used for calculation of the air-transfer energy in engines with divided combustion chambers. Two shortcomings of this method are pointed out which result in considerable divergences between the calculated and the experimental data, viz., a) in computing the transfer energy mean cycle velocities are substituted for

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Air-transfer Flow Rate in Divided Combustion Chambers

the true variable velocities of gases, and b) the determination of the transfer velocities from the indicator diagrams is performed by means of stationary-flow formulas. The second part of the paper is devoted to the results of measurement of the pressure difference between the chamber and the combustion chamber and other parameters for an experimental single-cylinder engine equipped with a specially constructed combustion chamber and operated at a constant speed of 900 rpm. The data obtained are further employed for calculating the transfer velocity by means of two different methods. In the first method the velocity for every given moment is calculated as a function of the pressure difference and the temperature according to stationary-flow formulas. In the second method the equation of state is used to determine the quantity of the gases contained in the volume of the chamber at every given moment of the cycle and this is followed by the calculation of the gas-flow rate (by weight) through the interconnecting duct and the corresponding transfer velocity. The results show that true transfer velocities are smaller approximately by 50% than the velocities obtained by the stationary-theory relationships. The author comes to the conclusion that present quality-of-mixture evaluation methods for divided chambers according to the magnitude of the transfer energy should be used with great caution and points to the necessity of developing experimental methods for the determination of the true gas-transfer velocities between divided chambers.

Card 2/2

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Pathogens.

Ref. No. : Ref. Zhur - Zhur., No 5, 1958, 1962

Author : Gonchar, E.A., Koshova, I.V., Koshova, I.V.

Title : Dynamics of Acaroparasitic Numbers in Burrows of Small
Marmots Depleted of Small Marmots by Pest Mites.

Ref. No. : Tr. Dnestrovsk. n.d. gos. n.-i. gos. univ. . 1962, 1963,
XI, 81-87

Abstract : A comparison is made of the numbers of ticks and ixodid
ticks at the entrance to burrows (by collecting on tapes)
of small marmots on 2 sectors (of 50-60 thousand hectares)
of the Chapayev district of the Western-Kazakhstan region,
where marmots were destroyed by poison bait in April
1954 and where for the last 3 years they have not been
collected. The average density of marmot population per
hectare on the territory set aside for depletion in the

Chart 1/2

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no.9:30-31 8 '59. (MIRA 13:1)
(Inventions)

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(Truck trailers) (Lumber--Transportation)

SOV/138-59-4-17/26

c AUTHOR: Gonchar, G.N.

TITLE: The Saratov Rubber Article Plant (Na Saratovskom zavode
rezinovykh izdeliy)

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp 50 - 51 (USSR)

ABSTRACT: This plant produces rubber footwear and bicycle tyres. Modifications carried out since 1954 and the resulting improvements are reviewed briefly. A new moulding press has been used since June 1958 which makes it possible to make 24 bicycle tyres in one working cycle. Previously, 15 000 tyres were produced per month on four hydraulic moulding presses; this has been increased to 40 000 tyres whilst using only two hydraulic presses. Production costs have been lowered by 26%. V.Ye.Ostrobodov put forward various modifications, and is at present constructing a new moulding press for tyres which will enable the factory to increase their production to 52 000 tyres per month.

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I. M. Semenyuk, V. A. Basargin (i) I. S. Gonchar. Moskva,
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295 p. illus., diagrs., tables.

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(MIRA 16:5)

(Meat—Standards) (~~Meat~~, Canned—Standards)

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ACC NR: AT6022901

SOURCE CODE: UR/3183/66/000/002/0096/0101

AUTHOR: Sukhorukov, A. R. (Docent); Korotkov, L. I. (Engineer); Gonchar, L. G. ⁴³ ~~BT~~
(Engineer); Malyshev, A. A. (Engineer)

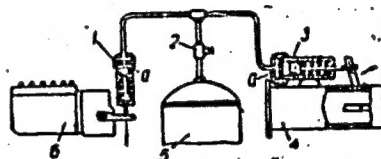
ORG: Kharkov Automobile-Highway Institute (Khar'kovskiy avtomobil'no-dorozhnyy institut)

TITLE: Experimental study of the efficiency of automotive diesel exhaust-assisted braking ¹⁷

SOURCE: Kharkov, Avtomobil'no-dorozhnyy institut. Avtomobil'nyy transport, no. 2, 1966, 96-101

TOPIC TAGS: ~~automotive industry~~, engine exhaust system, diesel engine, ^{industrial} truck, vehicle component / KrAZ-256 truck

ABSTRACT: The authors present some of the results from studies carried out at the Kharkov Automobile-Highway Institute and the Kremenchug Automobile Plant on the efficiency of diesel engine exhaust-assisted braking. KrAZ-256 dump trucks with YaMz-238 four-cycle diesel engines were used throughout the test. The fully equipped truck weighs 1150 kg and has a 10-ton load capacity. An exhaust braking system was produced at the plant to



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increase the braking effect of the YaMZ-238 engine (see figure). A hollow cylinder (4) with a baffle was attached to a section of the exhaust pipe passing under the cab. The baffle is controlled by the pneumatic cylinder piston (3). A similar pneumatic cylinder (1) was mounted on a bracket in the engine block for shutting off fuel pump (6) delivery. The exhaust braking system is activated by opening a valve (2) located in the cab. This brings compressed air up from the receiver (5) simultaneously to both pneumatic cylinders. Pneumatic system activation time, synchronization of exhaust baffle cutoff and fuel delivery shutoff can be controlled by varying the cross section of the passage α . All road tests were carried out on asphalt cement highways. The trucks were tested both with and without loading on level stretches and on 3-6% grades. Three operating conditions were tested for each level and graded run: 1. fuel delivery and exhaust baffle shutoff; 2. delivery shutoff with the exhaust baffle open; 3. exhaust baffle shutoff and minimum fuel delivery. The results show that the use of an exhaust pipe baffle in four-cycle diesel engines increases the efficiency of engine-assisted braking. Orig. art. has: 5 figures, 1 table.

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